Title (en)
  THERMAL CONTROL VALVE

Title (de)
  THERMOSTATISCHES STEUERVENTIL

Title (fr)
  VANNE THERMOSTATIQUE

Publication
  EP 1157230 B1 20060510 (EN)

Application
  EP 00901362 A 20000110

Priority
  • SE 0000022 W 20000110
  • SE 9900092 A 19990114

Abstract (en)
  [origin: WO0042341A1] The invention relates to a thermal control valve (1), which comprises a valve house (9) having an inlet (10) and an outlet (11), which are separated from each other by means of a partition wall (12), with a seat (13) mounted in it, with which a valve body (15), against the force of a regulating spring (14), cooperates and which is influenced by a thermostat body (17), which in its turn is influenced by a spindle (18), the axial position of which and consequently also the position of the body valve and the contact pressure of the valve body against the seat respectively can be adjusted by means of a valve handle (19). According to the invention the one end of the thermostat body (17) is influenced by an overload spring (44), the one side of which is supported by the valve handle (19), by a larger compressive force than that of the regulating spring (14), said overload spring is mounted around the spindle (18) and with its other end supported by the spindle, the spindle is mounted in a movable way in relation to the valve handle (19) through the thermostat body (17) and the overload spring (44), in addition to its function as a thermal protection, is designed to compensate for the length reduction of the thermostat body (17), when the temperature is reduced, in order to exert a cooling security function.

IPC 8 full level
  F16K 31/68 (2006.01); **G05D 23/02** (2006.01)

CPC (source: EP)
  G05D 23/022 (2013.01)

Cited by
  US10456756B2; US10773220B2; US11826712B2; US8945476B2; US9550154B2; US9931605B2; US10596535B2

Designated contracting state (EPC)
  AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
  WO 0042341 A1 20000720; AT E325977 T1 20060615; AU 2140400 A 20000801; DE 60027874 D1 20060614; DE 60027874 T2 20061116; DK 1157230 T3 20060807; EP 1157230 A1 20011128; EP 1157230 B1 20060510; ES 2264664 T3 20070116; PL 193165 B1 20070131; PL 349972 A1 20021021; SE 515651 C2 20010917; SE 9900092 D0 19990114; SE 9900092 L 20000715

DOCDB simple family (application)
  SE 0000022 W 20000110; AT 00901362 T 20000110; AU 2140400 A 20000110; DE 60027874 T 20000110; DK 00901362 T 20000110; EP 00901362 A 20000110; ES 00901362 T 20000110; PL 34997200 A 20000110; SE 9900092 A 19990114